In re: Simmons

Appl. No.: 10/090,035 Filed: February 28, 2002

Page 2

Amendments to the Claims:

(Currently Amended) An isolated nucleic acid comprising a polynucleotide selected from the group consisting of:

a) a polynucleotide that encodes a polypeptide of SEQ ID NOS: 2, 4, 6, 8, 10, 14, 16, 18, 20, 22, or 24;

b) a polynucleotide amplified from a Zea mays nucleic library using the primers made from SEQ ID NOS: 1, 3, 5, 7, 9, 13, 15, 17, 19, 21, or 23;

c) a polynucleotide comprising at least 25 contiguous bases of SEQ ID NOS: 1, 3, 5, 7, 9, 13, 15, 17, 19, 21, or 23;

d) apolynucleotide encoding a maize AFP1 protein;

e) a polynucleotide having at least 80% sequence identity to SEQ ID NOS: 1, 3, 5, 7, 9, 13, 15, 17, 19, 21, or 23 SEQ ID NO:3, wherein said polynucleotide encodes a maize AFP1 protein, or a complement of said polynucleotide.;

f)— a polynucleotide comprising at least 25 nucleotides in length which hybridizes under low stringency conditions to a polynucleotide having the sequence set forth in SEQ ID NOS: 1, 3, 5, 7, 9, 13, 15, 17, 19, 21, or 23;

g) a polynucleotide comprising the sequence set forth in SEQ ID NOS: 1, 3, 5, 7, 9, 13, 15, 17, 19, 21, or 23; and

h) a polynucleotide complementary to a polynucleotide of (a) through (g).

- 2. (Original) A vector comprising at least one nucleic acid of claim 1.
- 3. (Original) A recombinant expression cassette, comprising a nucleic acid of claim 1 operably linked to a promoter, wherein the nucleic acid is in sense or antisense orientation.
 - 4. (Original) A host cell comprising the recombinant expression cassette of claim 3.
- 5. (Original) A transgenic plant cell comprising the recombinant expression cassette of claim 3.

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In re: Simmons

Appl. No.: 10/090,035 Filed: February 28, 2002

Page 3

(Original) A transgenic plant comprising the recombinant expression cassette of claim 3.

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- 7. (Original) The transgenic plant of claim 6, wherein the plant is selected from the group consisting of: maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.
 - 8. (Original) A transgenic seed from the transgenic plant of claim 7.
- 9. (Original) An isolated protein comprising a polynucleotide selected from the group consisting of:
- a) a polypeptide comprising at least 25 contiguous amino acids of SEQ ID NO: 2, 4, 6, 8, 10, 14, 16, 18, 20, 22, or 24;
 - b) a polypeptide which is a maize AFP1 protein;
- c) a polypeptide comprising at least 75% sequence identity to SEQ ID NO: 2, 4, 6, 8, 10, 14, 16, 18, 20, 22, or 24;
 - d) a polypeptide encoded by a nucleic acid of claim 1; and
- e) a polypeptide characterized by SEQ ID NO: 2, 4, 6, 8, 10, 14, 16, 18, 20, 22, or 24.
- 10. (Original) A method of modulating the level of an AFP1 protein in a plant, comprising:
- a) introducing into a plant cell with a recombinant expression cassette comprising an AFP1 polynucleotide of claim 1 operably linked to a promoter;
- b) culturing the plant cell under plant growing conditions to produce a regenerated plant; and
- c) inducing expression of said polynucleotide for a time sufficient to modulate the AFP1 protein in said plant.

In re: Simmons

Appl. No.: 10/090,035 Filed: February 28, 2002

Page 4

(Original) The method of claim 10, wherein the plant is selected from the group consisting of: maize, soybean, sunflower, sorghum, canola, wheat, alfalfa, cotton, rice, barley, and millet.

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12. (Original) The method of claim 10, wherein the level of AFP1 protein is increased.

13. (New) An isolated nucleic acid comprising SEQ ID NO:1.

- 14. (New) An isolated nucleic acid comprising SEQ ID NO:3.
- 15. (New) An isolated nucleic acid comprising SEQ ID NO:5.
- 16. (New) An isolated nucleic acid comprising SEQ ID NO:7.
- 17. (New) An isolated nucleic acid comprising SEQ ID NO:9.